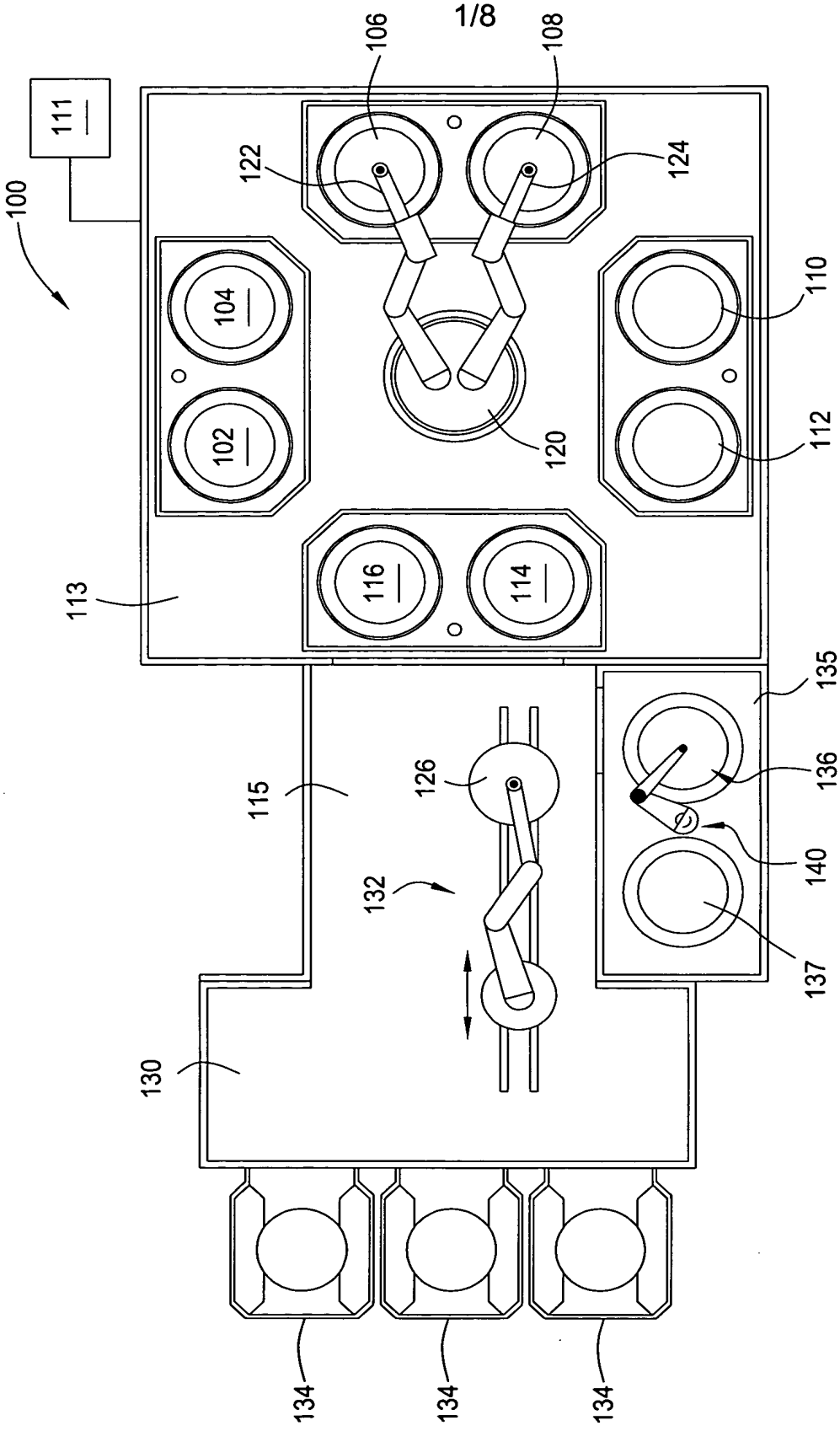
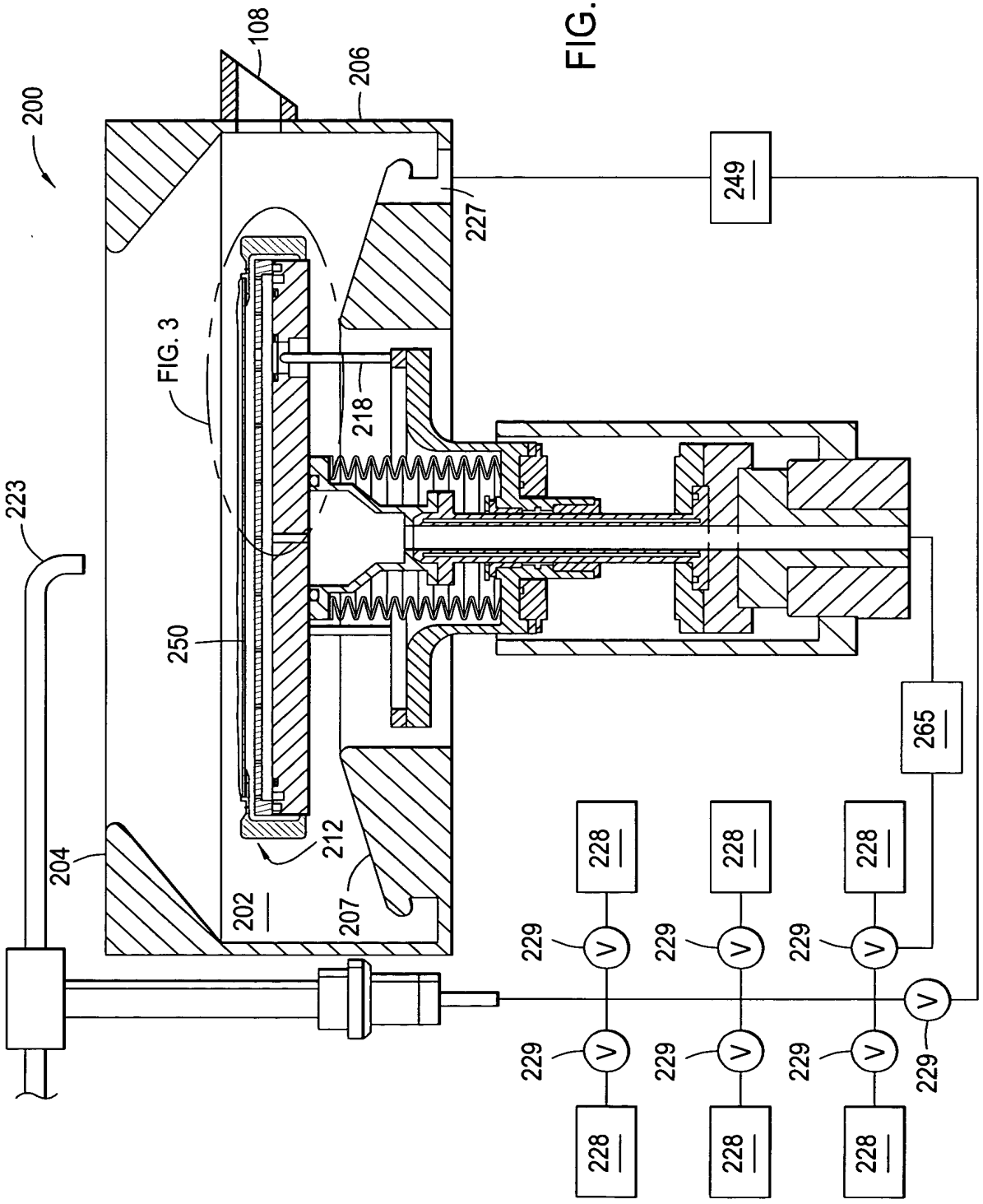

100
102
104
106
108
110
111
112
113
114
116
120
122
124
126
130
132
134
135
136
137
140
115

FIG. 1

FIG. 2A


200
108
206
249
227
FIG. 3
218
223
250
265
204
212
202
207
228
229
V

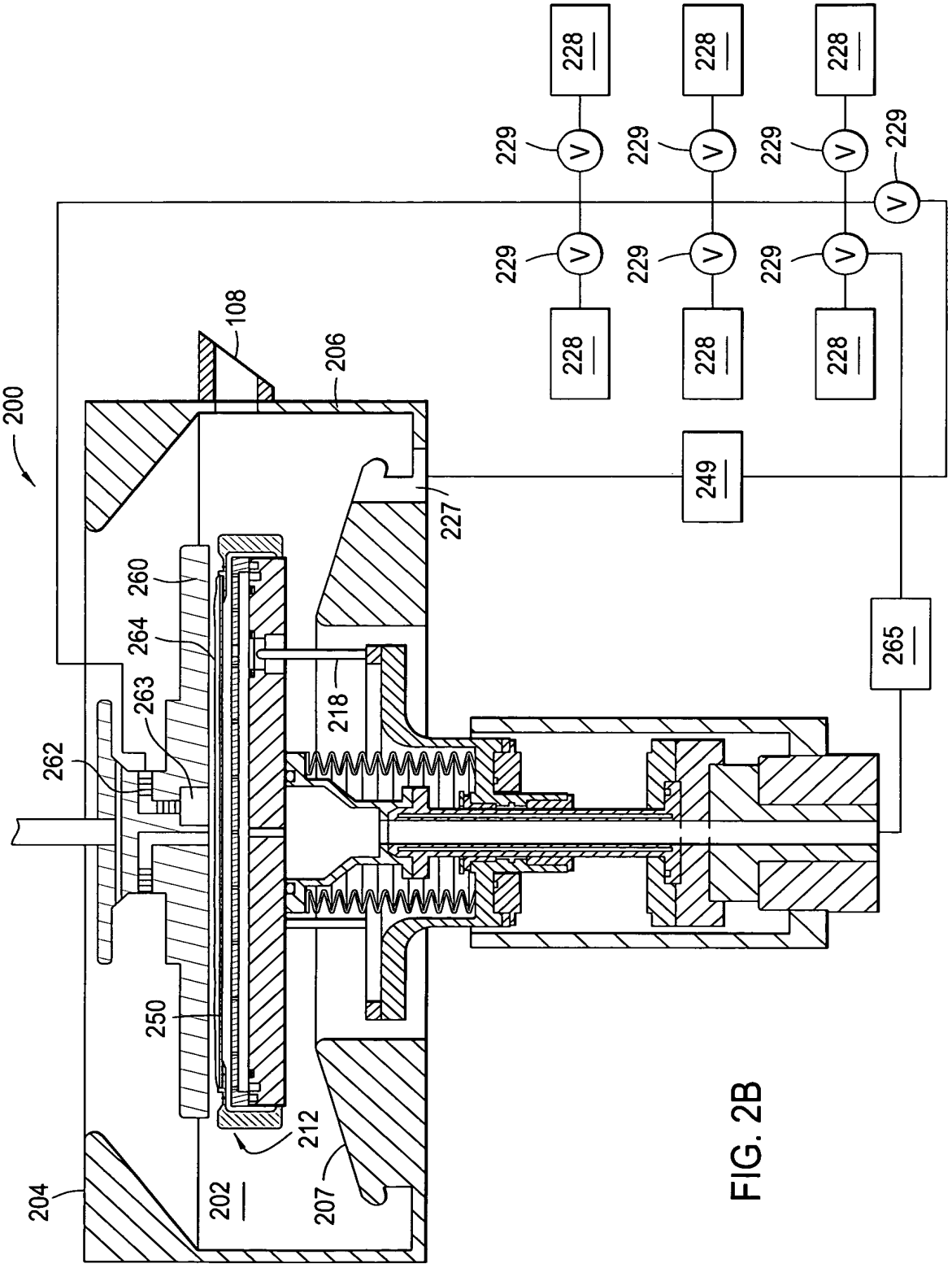

228
229
V
249
265
200
108
206
227
260
264
263
262
218
250
212
202
204
207

FIG. 2B

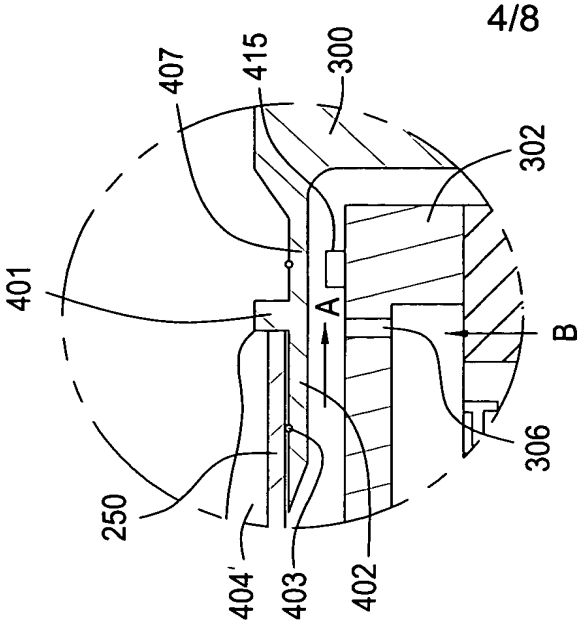

407
415
300
302
401
A
B
306
250
404'
403
402

FIG. 4

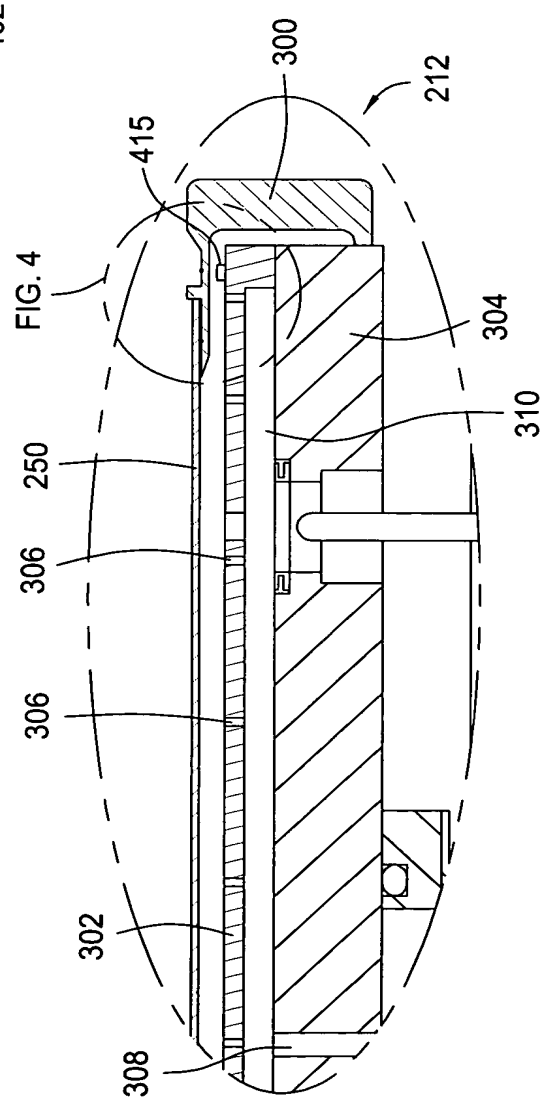

300
212
415
FIG. 4
304
310
250
306
306
302
308

FIG. 3

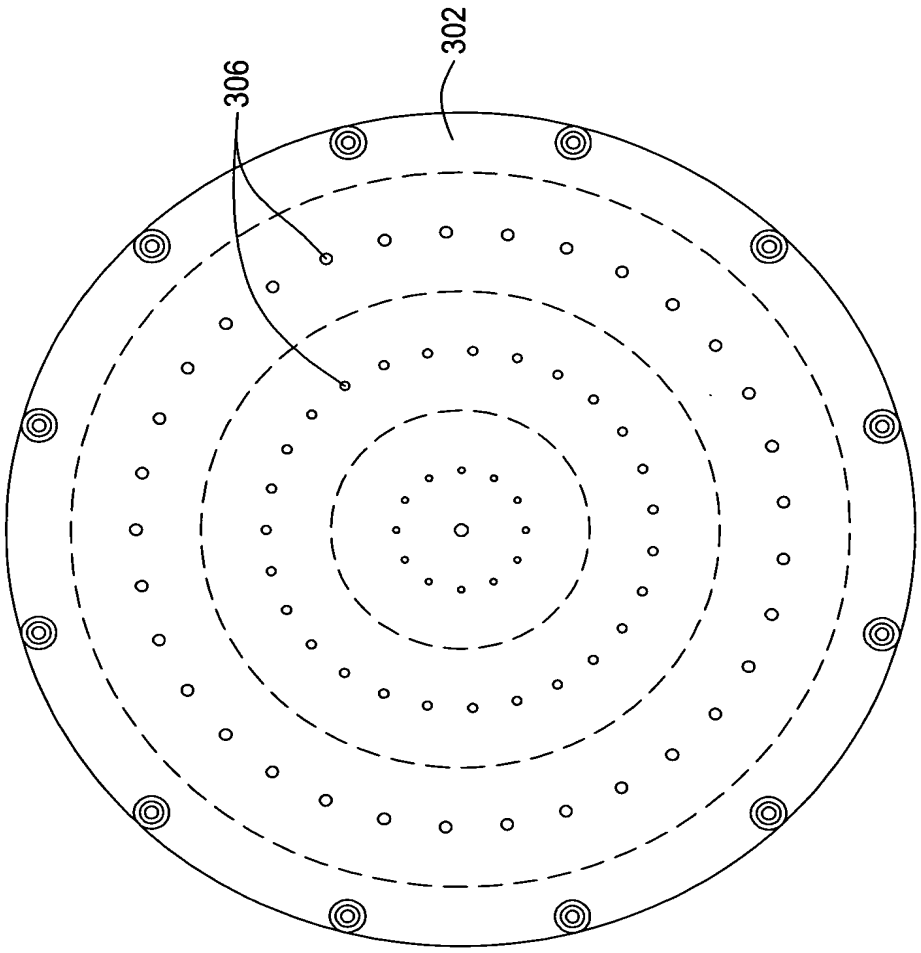


FIG. 5

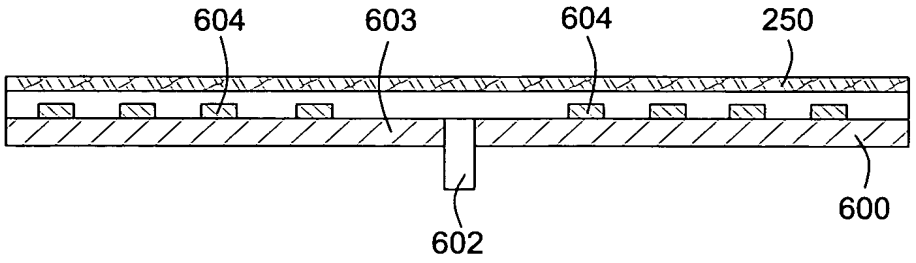


FIG. 6

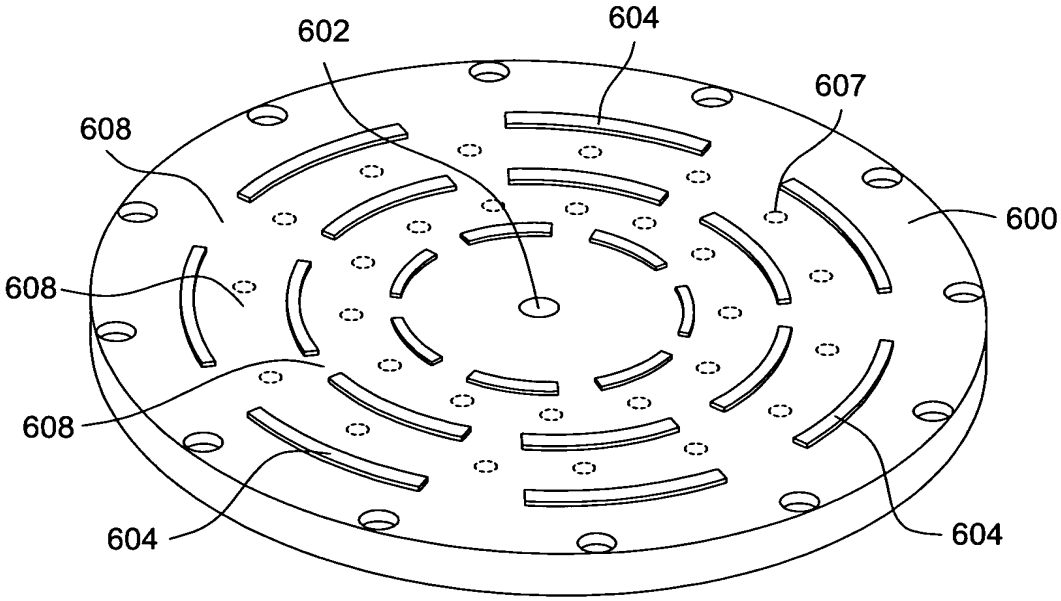


FIG. 7

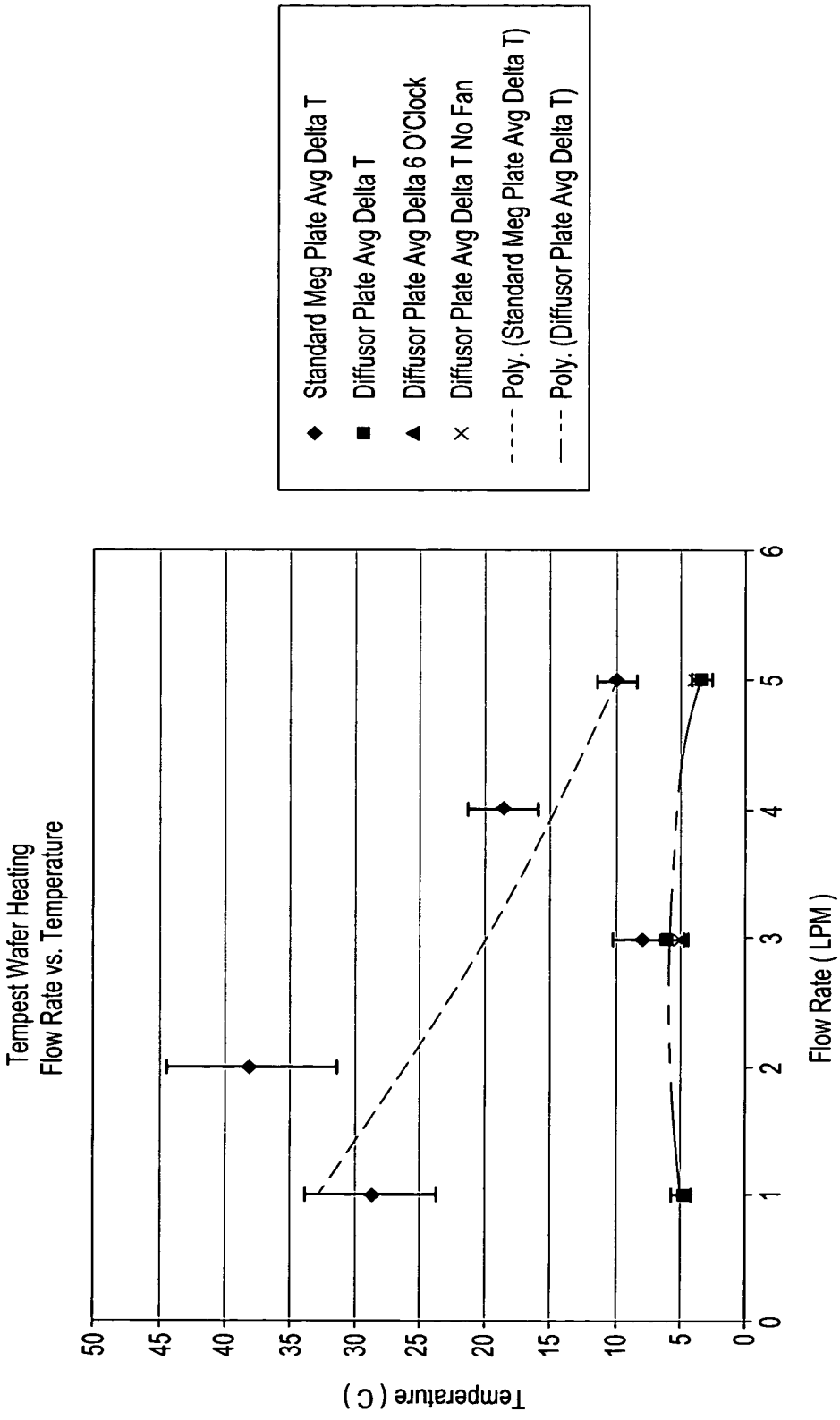

Standard Meg Plate Avg Delta T
Diffusor Plate Avg Delta T
Diffusor Plate Avg Delta 6 O'Clock
Diffusor Plate Avg Delta T No Fan
Poly. (Standard Meg Plate Avg Delta T)
Poly. (Diffusor Plate Avg Delta T)
Tempest Wafer Heating
Flow Rate vs. Temperature
Temperature (C)
Flow Rate (LPM)
0
5
10
15
20
25
30
35
40
45
50
0
1
2
3
4
5
6

FIG. 8

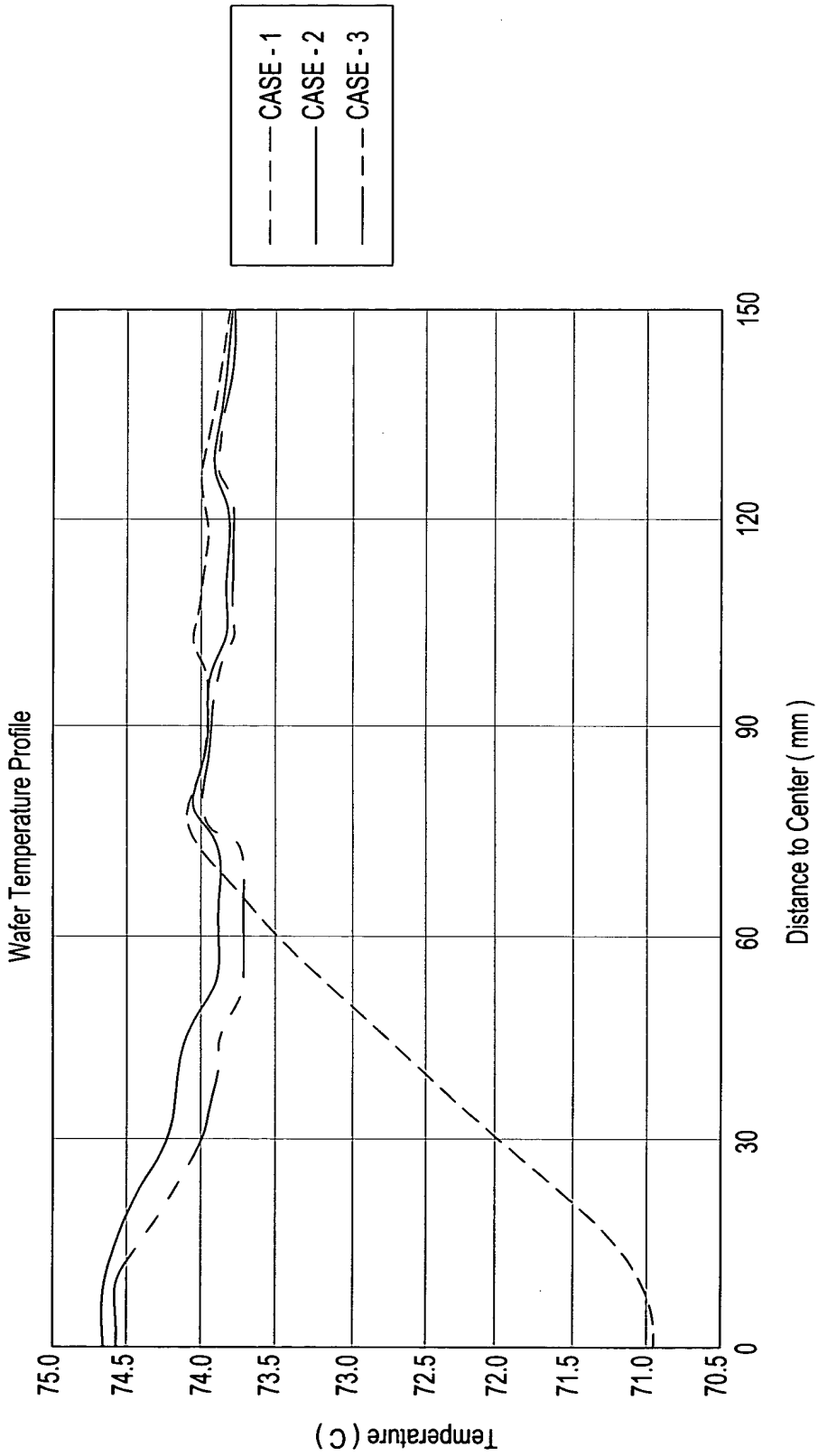

CASE - 1
CASE - 2
CASE - 3
Wafer Temperature Profile
Distance to Center (mm)
Temperature (C)
0
30
60
90
120
150
75.0
74.5
74.0
73.5
73.0
72.5
72.0
71.5
71.0
70.5

FIG. 9